



Newton and Gravity

1. When was Isaac Newton born?

2. Why did Newton move from Cambridge to Woolsthorpe Manor?

3. What fruit did Newton see falling from a tree?

4. In which direction does gravity pull objects?

5. Why does the Moon stay in orbit around the Earth?

6. What are forces measured in?

7. What did Albert Einstein think of Isaac Newton?

8. What can still be seen from Isaac Newton's old bedroom window?



Newton and Gravity Answers

1. When was Isaac Newton born?
Isaac Newton was born in 1643.
2. Why did Newton move from Cambridge to Woolsthorpe Manor?
Newton moved to Woolsthorpe Manor because plague broke out.
3. What fruit did Newton see falling from a tree?
Newton saw an apple falling from a tree.
4. In which direction does gravity pull objects?
Gravity pulls objects down towards the centre of the Earth.
5. Why does the Moon stay in orbit around the Earth?
The Moon stays in orbit around the Earth because gravity pulls it towards the Earth.
6. What are forces measured in?
Forces are measured in newtons (N).
7. What did Albert Einstein think of Isaac Newton?
Albert Einstein thought that Isaac Newton had one of the most brilliant minds of anyone who had ever lived and that he was a 'shining spirit'.
8. What can still be seen from Isaac Newton's old bedroom window?
The apple tree that inspired Newton's ideas about gravity can still be seen from his old bedroom window.



Newton and Gravity

1. When was Isaac Newton born?

2. Why do you think the outbreak of plague forced Newton to move from Cambridge back to Woolsthorpe Manor?

3. What inspired Newton to explore the force of gravity?

4. How did Newton describe the way gravity pulls objects?

5. What did Newton discover about the way gravity affects the Moon?

6. Why do you think forces are measured in newtons with a newton metre?

7. Look at this phrase: *Even Albert Einstein, writing in 1927, 200 years after Newton's death, described Newton as a 'shining spirit'*. What does the word 'Even' make you think about Albert Einstein?

8. Why do you think the National Trust have kept and looked after the apple tree in the gardens of Woolsthorpe Manor?



Newton and Gravity Answers

1. When was Isaac Newton born?
Isaac Newton was born in 1643.
2. Why do you think the outbreak of plague forced Newton to move from Cambridge back to Woolsthorpe Manor?
He was forced to move away from the city when Plague broke out because he would be less likely to catch the infectious disease in the country.
3. What inspired Newton to explore the force of gravity?
The sight of an apple falling from a tree inspired Newton to explore the force of gravity.
4. How did Newton describe the way gravity pulls objects?
He described gravity as being like a 'drawing power' from the centre of the Earth.
5. What did Newton discover about the way gravity affects the Moon?
He discovered that the Earth exerts its gravitational force on the moon and this causes it to stay in orbit.
6. Why do you think forces are measured in newtons with a newton metre?
Newtons and the newton meter are named after Isaac Newton because of the discoveries he made to do with forces.
7. Look at this phrase: *Even Albert Einstein, writing in 1927, 200 years after Newton's death, described Newton as a 'shining spirit'.* What does the word 'Even' make you think about Albert Einstein?
It makes me think that Albert Einstein must have had an impressive mind himself too.
8. Why do you think the National Trust have kept and looked after the apple tree in the gardens of Woolsthorpe Manor?
Example answer: I think the tree and gardens have been preserved because the discoveries that Newton made were significant and so the place where the ideas were first formed should be kept safe for people to see when they learn about Isaac Newton.